
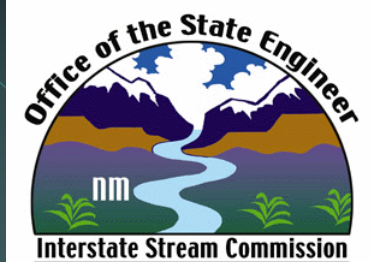


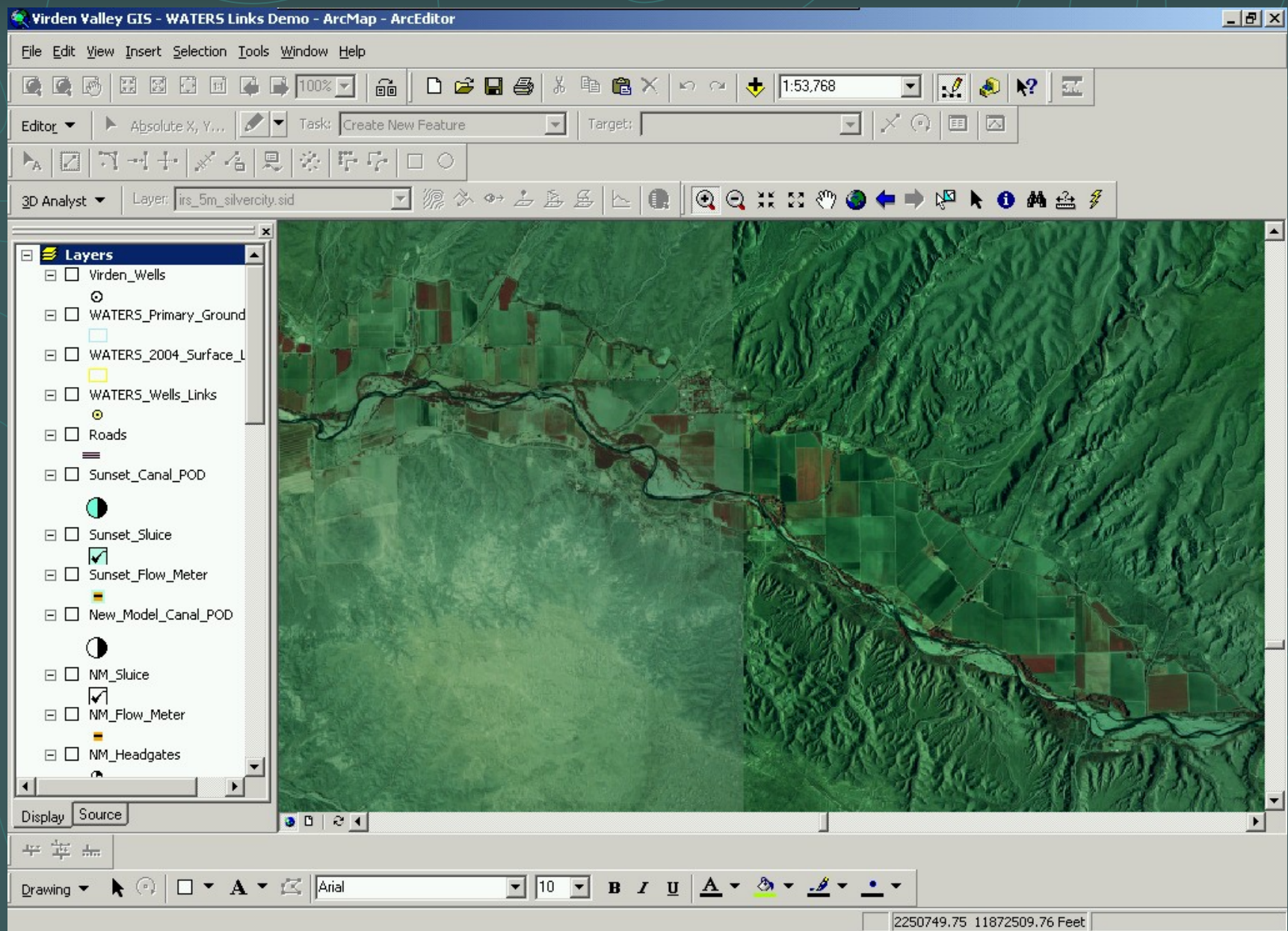
# Virden Valley E-GIS



A New Approach to a Historic Process  
New Mexico Office of the State Engineer  
By: Tink Jackson – Deputy Director  
District 3

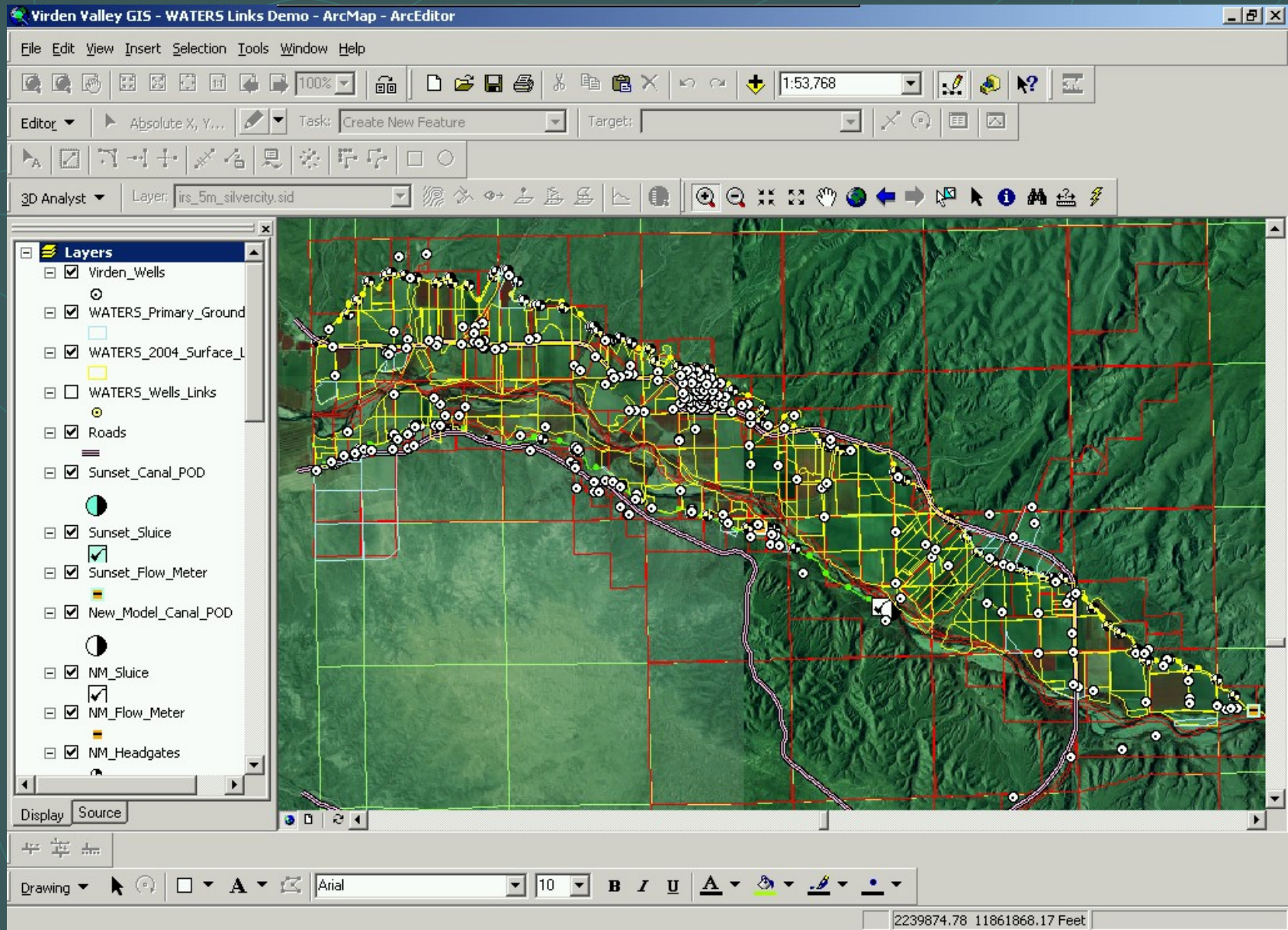


# Aerial Photography as Base



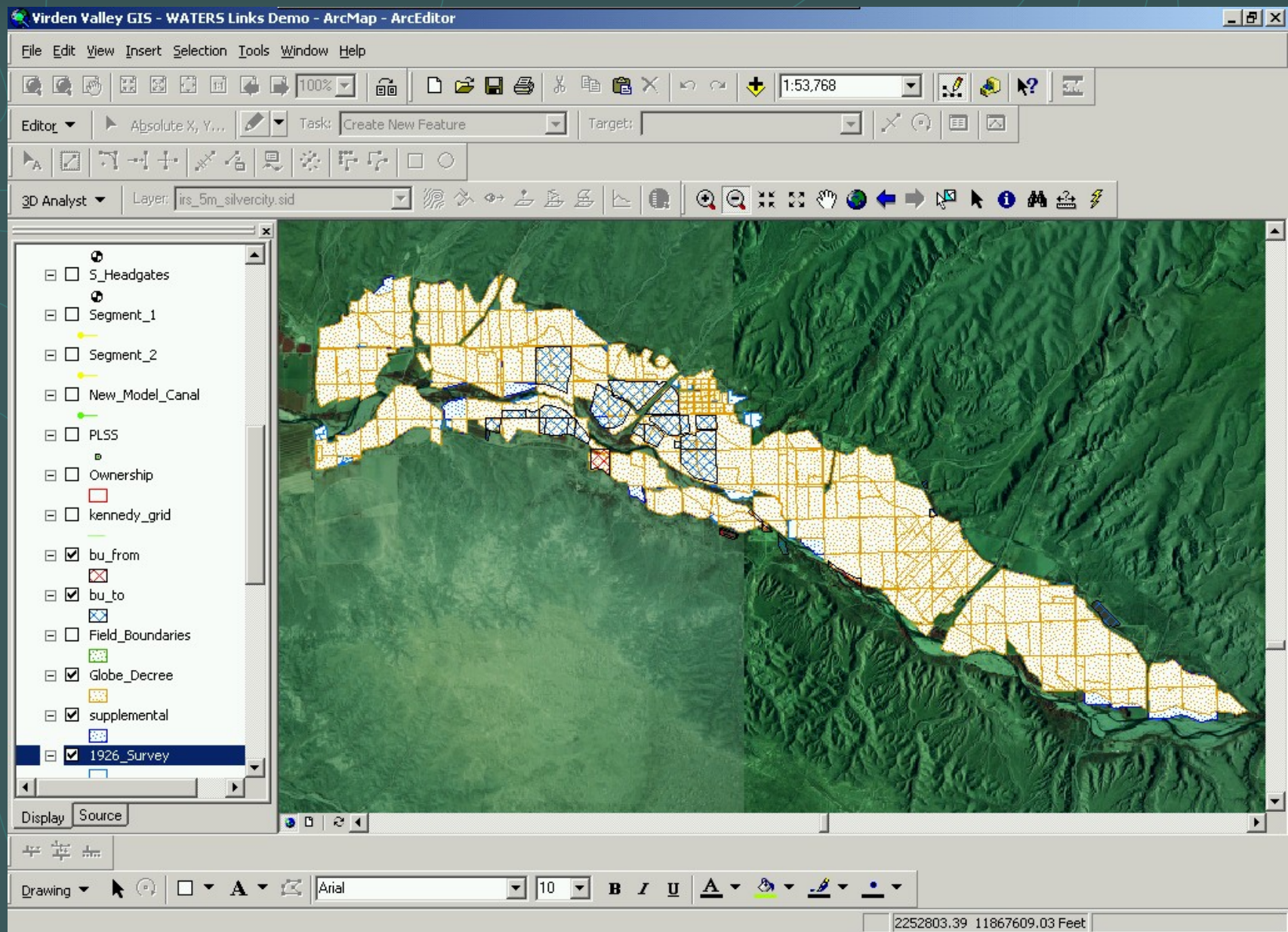


# Collect and Add Field Data





# Digitize and Add Historical Data





# Administrative Uses

Viriden Valley GIS - WATERS Links Demo - ArcMap - ArcEditor

File Edit View Insert Selection Tools Window Help

100% 1:57,409

Editor Absolute X, Y, ... Task: Create New Feature Target: Target Layer

3D Analyst Layer: lrs\_5m\_silvercity.sid

**Layers**

- ☒ Viriden\_Wells
- ☒ WATERS\_Primary\_Ground
- ☒ WATERS\_2004\_Surface\_I
- ☐ WATERS\_Wells\_Links
- ☒ Roads
- ☐ Sunset\_Canal\_POD
- ☐ Sunset\_Sluice
- ☒ Sunset\_Flow\_Meter
- ☐ New\_Model\_Canal\_POD
- ☐ NM\_Sluice
- ☒ NM\_Flow\_Meter

Display Source

Drawing

Attributes o... te will be stored

**Identify Results**

Layers: <Top-most layer>

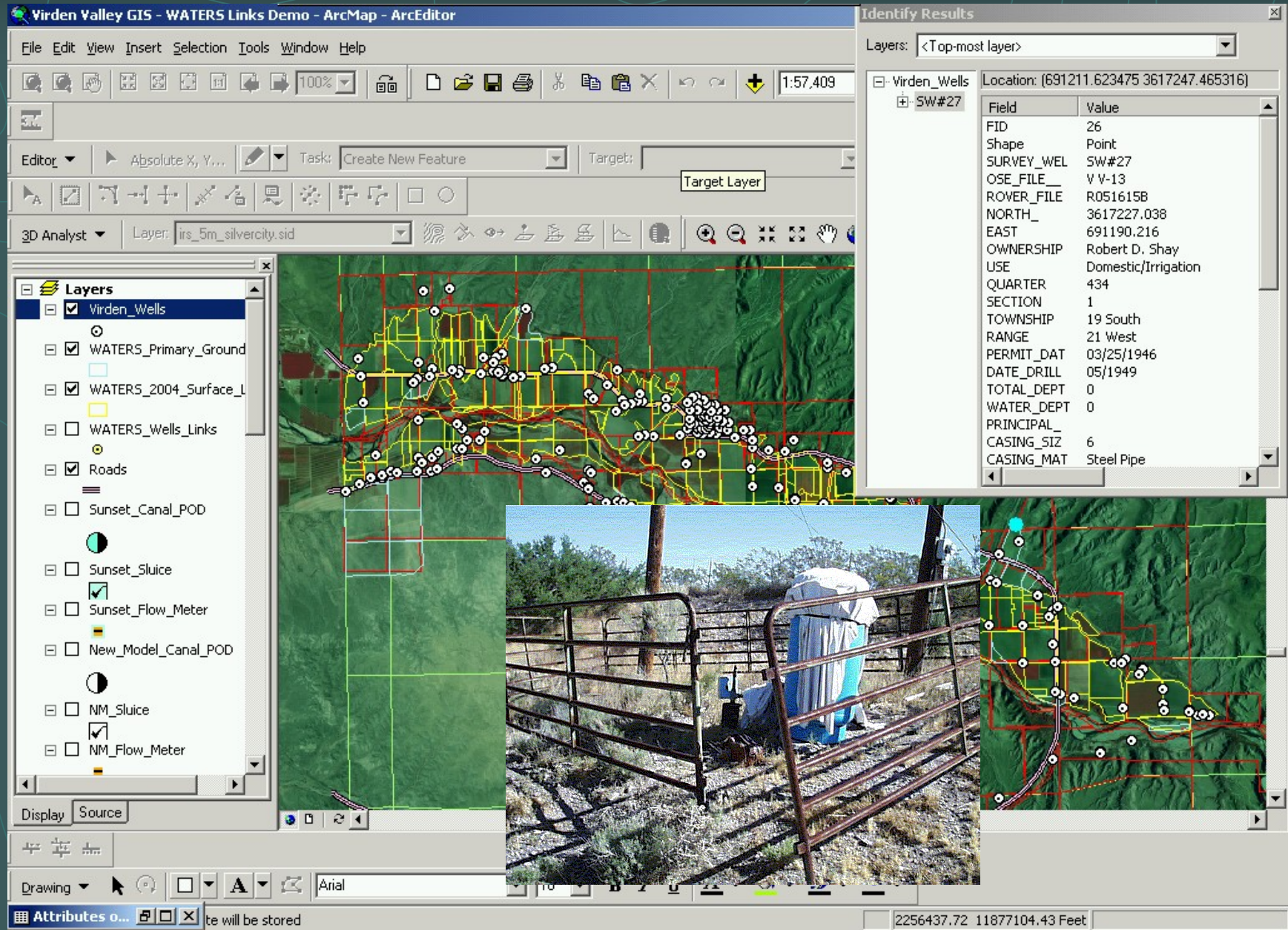
☒ Viriden\_Wells

☒ SW#27

Location: (691211.623475 3617247.465316)

Field	Value
FID	26
Shape	Point
SURVEY_WEL	SW#27
OSE_FILE	V V-13
ROVER_FILE	R051615B
NORTH	3617227.038
EAST	691190.216
OWNERSHIP	Robert D. Shay
USE	Domestic/Irrigation
QUARTER	434
SECTION	1
TOWNSHIP	19 South
RANGE	21 West
PERMIT_DAT	03/25/1946
DATE_DRILL	05/1949
TOTAL_DEPT	0
WATER_DEPT	0
PRINCIPAL	
CASING_SIZ	6
CASING_MAT	Steel Pipe

2256437.72 11877104.43 Feet





# Priority Review

Viriden Valley GIS - WATERS Links Demo - ArcMap - ArcEditor

File Edit View Insert Selection Tools Window Help

100%

Editor Absolute X, Y, ... Task: Create New

3D Analyst Layer: lrs\_5m\_silvercity.sid

**Layers**

- ☒ Viriden\_Wells
- ☒ WATERS\_Primary\_Ground
- ☒ WATERS\_2004\_Surface\_L
- ☐ WATERS\_Wells\_Links
- ☒ Roads
- ☐ Sunset\_Canal\_POD
- ☐ Sunset\_Sluice
- ☒ Sunset\_Flow\_Meter
- ☐ New\_Model\_Canal\_POD
- ☐ NM\_Sluice
- ☒ NM\_Flow\_Meter

Display Source

**Attributes of WATERS\_2004\_Surface\_Links**

PRIORITY	OWNER
1874	Jon & Bethleen Swapp & Farm Credit of N.
1892	Jon & Bethleen Swapp & Farm Credit of N.
1892	Jon & Bethleen Swapp & Farm Credit of N.
1892	Jon & Bethleen Swapp & Farm Credit of N.
1881	Phelps Dodge Corporation
1881 & 1896	Phelps Dodge Corporation
1900	Phelps Dodge Corporation
1896	Phelps Dodge Corporation
1901	Phelps Dodge Corporation

Record: 1 Show: All Selected Records (1 out of 286 Selected.) Options

Drawing Arial 10 B I U A

2242583.75 11861257.09 Feet



# Selecting By Priority

Select by Attributes

Enter a WHERE clause to select records in the table window.

Method: Create a new selection

Fields:

- [OBJECTID]
- [ID]
- [FILE\_]
- [SUBDIVISIO]
- [SECTION\_]
- [TOWNSHIP]
- [RANGE]
- [ACREAGE]
- [PRIORITY]
- [OWNER]

Unique values:

- '1885,1898,1917'
- '1885; 1898'
- '1886 & 1893'
- '1886'
- '1886,1893'
- '1887'
- '1892 & 1874'
- '1893'

SQL Info...

Complete List

SELECT \* FROM WATERS.WATERS\_2004\_Surface\_Links WHERE:

[PRIORITY] <= '1886'

Clear Verify Help Load... Save... Apply Close

Attributes of WATERS\_2004\_Surface\_Links

OBJECTID*	Shape*	ID	FILE_
25	Polygon	0	VV-5,VV-23,VV-26-COMB
26	Polygon	0	VV-5,VV-23,VV-26-COMB
27	Polygon	0	VV-5,VV-23,VV-26-COMB
28	Polygon	0	VV-5,VV-23,VV-26-COMB
29	Polygon	0	VV-5,VV-23,VV-26-COMB
30	Polygon	0	VV-5,VV-23,VV-26-COMB

Record: 1 Show: All Selected Records (129 out of 286 Selected) Options

Display Source

Number of features selected: 129

2259726.79 11875011.39 Feet



# Priority < 1886

Elect by Attributes

Enter a WHERE clause to select records in the table window.

Method: Create a new selection

Fields:

- [OBJECTID]
- [ID]
- [FILE\_]
- [SUBDIVISIO]
- [SECTION\_]
- [TOWNSHIP]
- [RANGE]
- [ACREAGE]
- [PRIORITY]
- [OWNER]

Unique values:

- '1885,1898,1917'
- '1885:1898'
- '1886 & 1893'
- '1886'
- '1886,1893'
- '1887'
- '1892 & 1874'
- '1892'

SQL Info...

Complete List

SELECT \* FROM WATERS.WATERS\_2004\_Surface\_Links WHERE:

[PRIORITY] < '1886'

Clear Verify Help Load... Save... Apply Close

Attributes of WATERS\_2004\_Surface\_Links

PRIORITY
1874 & 1892
1874
1874
1874
1874 & 1892
1892
1874 & 1892
1874
1874
1892 & 1874
1881 & 1892
1874, 1881 & 1892
1874 & 1881
1874 & 1900
1874
1874

Record: 1 Show: All Selected Re

Display Source

New\_Model\_Canal\_POD

NM\_Sluice

NM\_Flow\_Meter

Drawing

Arial

10

B I U

2244228.29 11880543.01 Feet



# Active Water Resource Management

New Mexico Office of the State Engineer - Microsoft Intern...

File Edit View Favorites Tools Help

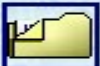
Back Forward Stop Home Search Favorites Media

Address <http://iwaters.ose.state.nm.us:7001/iWATERS> Go Links

---

*New Mexico Office of the State Engineer*  
**Water Right Summary**

Back

 **DB File Nbr:** VV 00013

**Primary Purpose:** IRR IRRIGATION




**Primary Status:** LIC Licensed

**Total Acres:** 19.45

**Total Diversion:** 58.35

**Owner:** ROBERT D. SHAY

**Documents on File**

Doc	File/Act	Status	1	2	3	Trans_Desc
 <a href="#">SUPPL</a>	<a href="#">10/18/2001</a>	PMT ET	ABS	VV	00013	S
 <a href="#">CLWPL</a>	<a href="#">06/23/1982</a>	PMT ET	ABS	VV	00013	
 <a href="#">CLWPL</a>	<a href="#">06/23/1982</a>	DMT ET	ABS	VV	00013	

Done Internet

Identify Results

Layers: <Top-most layer>

WATERS\_Primary\_Ground  
WV-13

Location: (691214.709390)

Field	Value
OBJECTID	7
Shape	Polygon
ID	0
NUMBER_	7
FILE_	VV-13
WATERS_FIL	VV-13
SUBDIVISIO	PT. N1/2 NE1/4 PT.
SECTION_	12
TOWNSHIP	19 S
RANGE	21 W
ACREAGE	19.45
PRIORITY	02/09/46
OWNER	Robert D. Shay
REMARKS	also in Section 1
WATERS_URL	<a href="http://iwaters.ose.">http://iwaters.ose.</a>
Shape_Length	1190.273337
Shape_Area	78772.018895

2267619.82 11866758.63 Feet